DATE: **FEBRUARY 18, 2005** TO: Municipal Clerk Byron E. Johnson, C.P.M. FROM: Director of Purchasing x 431 THRU: Rachel Johnson Clerk Typist II x 4162 Please place the following item on the **REGULAR** agenda for the Council Meeting of MARCH 1, 2005. Item should read as follows: Approve Change Order No. One to EAS Contracting, L. P. for Contract No. 2004-204, El Paso International Airport Airfield Lighting and Controls project for an increased amount of \$779,983.45, as follows: Scope Change: Replace 203 signs of various types from 1 to 7 modules on the airfield. Add 60 calendar days to contract time. \$834,911.00 Construction Change: Revise line items in contract to allow for payment of temporary wiring, lights, and signs to reflect actual onsite conditions; revise contract line items for several duct bank configurations that are required between the handhole and the end of the casing for the bores under the taxiways and runway to reflect actual requirements; credit is also being provided for material not used in Taxiway K2 bore. <\$54,927.55>

Contact person: Barbara Crumley, Administrative Analyst, Purchasing (915) 541-4113

AGENDA FOR: MARCH 1, 2005

CITY OF EL PASO, TEXAS REQUEST FOR COUNCIL ACTION (RCA)

| DEPARTMENT: AGENDA DATE: | Purchasing February 21, 2005 |
|--|--|
| CONTACT PERSON DISTRICT(S) AFFEO PROJECT NAME/SO | CTED:3 |
| SUBJECT: | |
| International follows: | inge Order No. One to EAS Contracting, L. P. for Contract No. 2004-204, El Paso Airport Airfield Lighting and Controls project for an increased amount of \$779,983.45, as |
| Scope Chang days to contr | ge: Replace 203 signs of various types from 1 to 7 modules on the airfield. Add 60 calenda ract time. \$834,911.00 |
| signs to refle | Change: Revise line items in contract to allow for payment of temporary wiring, lights, and ect actual onsite conditions; revise contract line items for several duct bank configurations aired between the handhole and the end of the casing for the bores under the taxiways and flect actual requirements; credit is also being provided for material not used in Taxiway K2 927.55> |
| BACKGROU | UND / DISCUSSION: |
| Request for C | Change Order and backup are attached. |
| PRIOR COL | INCIL ACTION: |
| N/A | |
| AMOUNT A | ND SOURCE OF FUNDING: |
| Funding is pr | ovided by 62620031-G620AIP0021-11510-508027 (FAA Grant). |
| BOARD / CO | OMMISSION ACTION: |
| N/A | |
| *** | ************************************** |
| LEGAL: (if required | 1/2/1 |
| APPROVED FOR | AGENDA: |
| CITY MANAGER | :: DATE: |

DATE:

February 18, 2005

TO:

Municipal Clerk

FROM:

Byron E. Johnson, C.P.M.

Director of Purchasing x 4313

THRU:

Rachel Johnson

Clerk Typist II x 4162

Please place the following item on the **REGULAR** agenda for the Council Meeting of March 1, 2005.

Item should read as follows:

Approve Change Order No. One to EAS Contracting, L. P. for Contract No. 2004-204, El Paso International Airport Airfield Lighting and Controls project for an increased amount of \$779,983.45, as follows:

Scope Change: Replace 203 signs of various types from 1 to 7 modules on the airfield. Add 60 calendar days to contract time. \$834,911.00

Construction Change: Revise line items in contract to allow for payment of temporary wiring, lights, and signs to reflect actual onsite conditions; revise contract line items for several duct bank configurations that are required between the handhole and the end of the casing for the bores under the taxiways and runway to reflect actual requirements; credit is also being provided for material not used in Taxiway K2 bore. <\$54,927.55>

| Contact person: Barbara Crumley, Administrative | Analyst, Purchasir | ng (915) 541-4113. | |
|---|--------------------|--------------------|----|
| | | | |
| | | | |
| ***************** | ****** | ******* | ** |
| | AGENDA FOR: | | |

CITY OF EL PASO PURCHASING DEPARTMENT CONTRACT CHANGE ORDER

| DATE: | 2/17/2005 | | CHANGE | ORDER NO.: | 01 |
|--|--|---|--|--|--|
| DAIL. | 2/17/2005 | | ✓ SCOPE CHA | NGE | ☑ CONSTRUCTION CHANGE |
| PROJECT: | EPIA AIRFIELD LIGHTI | NG AND CONTROLS | CONTRAC | T NO: | 2004-204 |
| TO (Contractor): | EAS CONTRACTING, L | Р | DEPT. ID# PROJ/GRA FUND: ACCOUNT PO NO.: | ANT/USER: | 62620031 G620AIP0021 11510 508027 2005002662 |
| You are directed to ma | ke the following changes to | this Contract: | | | |
| Construction Chang contract line items for s | e: Revise line items in con several duct bank configura | ypes from 1 to 7 modules on the airfield. tract to allow for payment of temporary ations that are required between the han s; credit is also being provided for mate | wiring, lights, and the e | and signs to reflect a end of the casing fo | actual onsite conditions; revise or the bores under the |
| *************************************** | | CHANGE O | RDER AMOUN | T: 779,983.45 |) } |
| Original Contract Sum | | | | 5,584,368.00 | |
| Net Change by previous (| Change Orders | | | 0.00 | |
| Contract Sum prior to this | | | | 5,584,368.00 | |
| Contract Sum will be | (increased) | By this Cha | anae Order | 779,983.45 | |
| New Contract Sum, includ | , | | | 6,364,351.45 | |
| Total Net Value of Change | | | | 779,983.45 | |
| Contract Time will be | (increased) | BY (60 |) DAYS* | | |
| * Subject to the terms of the | Contract, GENERAL CONDITION: | S, SECTION 2.5 | | | |
| Net Change Order Percer | stage (Not to exceed 25%) | 13.97% | | | |
| CON | ITRACTOR | PROGRAM MANAGER | | T | CITY OF EL PASO |
| EAS COM | NTRACTING, LP | PARAGON PROJECT RESOURC | ES, INC. | | 010. ==1700 |
| | | Reviewed and Recommended: | , | CITY COUNCIL ACT | ION REQUIRED. |
| Ву: | | By: | | | |
| | | Jy | | | [] No |
| Type or Print Name | | Type or Print Name | | | Date Approved |
| | | | | | |
| Date | | Date | | | |
| ARCHITEC | CT / ENGINEER | COEP USER DEPARTMEN | Τ | ゴ | |
| DINTER ENGIN | EERING COMPANY | AIRPORT | | | |
| | | | | | |
| Ву: | | Ву: | | Ву: | |
| | | | | | |
| Type or Print Name | | Type or Print Name | | Rick Conner City Engineer | |

Date

Date

REQUEST FOR CHANGE ORDER No. 01

| TO: | Isela F. Cana | va | | | DATE: | 02/2/2 | 005 |
|-----------------------------------|--|--|-------------------------------|--------------------|---------------------------------|------------------------|--|
| FROM: | Manuel Rosa Paragon Proj 4603 Ripley I El Paso, TX 7 | ect Resource Drive | | (915) 2 | 252-4329 | FAX | (915) 771-0506 |
| RE: | Project Bid No | | d Lighting and (204 | Controls | 5 | | |
| Change | Order No: | 01 Replace Banks from | Airport Signs Bores to Han | , Temp idholes | orary Measu | res for C | Circuits and Duct |
| Please I | Indicate Type | <i>:</i> | Construction | 1 | Scope | | |
| Please | Indicate Actio | on to PO: | Increase | | Decrease | | No Change |
| Change | in Contract 1 | Time: | 60 Days | | | | |
| Change | Order Amou | nt: | \$779,983.45 | | | | |
| | | Unforeseen Value Engine Error/Omiss User Reques | eering: ion: | • | 927.55) | | |
| | | Total | | \$779, | 983.45 | | |
| increase | ation: Item 1: es contract am ee Attached It | ount by \$834. | ,911.00 and inc | s types creases | from 1 to 7 m the contract t | nodules d time fram | on the airfield. This ne by 60 calendar |
| and sigr configur the taxiv | Item 2: Revise line items in contract to allow for payment of temporary measures such at wiring, lights, and signs to reflect actual onsite conditions. Also, the contract line items for several duct bank configurations that are required between the handhole and the end of the casing for the bores under the taxiways and runway need to be revised to reflect actual requirements. Credit is also being provided for material not used in Taxiway K2 bore. This decreases contract amount by \$54,927.55 with no change in contract time. See Attached Item 2 Unit Price List. | | | | | | |
| Attachn | | Problem / So | | | | | |
| Approv | ed by: | Patrick Director o | | | | Date | |

Airfield Lighting and Controls Bid No. 2004-204 Change Order # 01 Item 1 Unit Prices

| Line | Item | Qty | | Unit Price | Total Price |
|-------|------------|-----|---|------------|--------------|
| LITTE | 1.0111 | | | | |
| 56 | L-858-6.8 | 30 | New Size 3 One-module-single face, Guidance Sign. | \$3,200.00 | \$96,000.00 |
| 57 | L-858-6.9 | 2 | New Size 3 One-module-double face, Guidance Sign. | \$3,250.00 | \$6,500.00 |
| 37 | L-030-0.5 | | | | |
| 58 | L-858-6.10 | 23 | New Size 3 Two-module-single face, Guidance Sign. | \$3,600.00 | \$82,800.00 |
| 59 | L-858-6.11 | 8 | New Size 3 Two-module-double face, Guidance Sign. | \$3,700.00 | \$29,600.00 |
| 60 | L-858-6.12 | 47 | New Size 3 Three-module-single face, Guidance Sign. | \$4,000.00 | \$188,000.00 |
| 61 | L-858-6.13 | 24 | New Size 3 Three-module-double face, Guidance Sign. | \$4,150.00 | \$99,600.00 |
| 62 | L-858-6.14 | 12 | New Size 3 Four-module-single face, Guidance Sign. | \$4,400.00 | \$52,800.00 |
| 63 | L-858-6.15 | 19 | New Size 3 Four-module-double face, Guidance Sign. | \$4,600.00 | \$87,400.00 |
| 64 | L-858-6.16 | 1 | New Size 3 Five-module-single face, Guidance Sign. | \$4,800.00 | \$4,800.00 |
| 65 | L-858-6.17 | 9 | New Size 3 Five-module-double face, Guidance Sign. | \$5,000.00 | \$45,000.00 |
| 66 | L-858-6.18 | 1 | New Size 3 Six-module-double face, Guidance Sign. | \$5,400.00 | \$5,400.00 |
| 67 | L-858-6.19 | | New Size 3 Seven-module-single face, Guidance Sign. | \$5,700.00 | \$22,800.00 |

For the preceding items (Line 56 item L-858-6.8 thru Line 67 item L-858-6.19) the following applies: Furnishing a new L-858 sign, lamps and transformer mounting supports, hardware and reinstalling wiring of sign with new L-823 connectors, heat-shrinkable rubber sleeve over the connectors. Installed as completed unit, connected to circuit, operating for a minimum of one week burn-in period, ready for operation and accepted.

| circuit, operating for a minimum of one week burn-in period, ready for operation and accepted. | | | | | |
|--|------------|----|--|------------|--------------|
| | | | Type Four two sided Distance remaining signs on existing | | |
| 68 | L-858-6.20 | 19 | foundations. | \$4,600.00 | \$87,400.00 |
| | | | Type Four two sided Distance remaining signs on new | | |
| 69 | L-858-6.21 | 4 | foundations and power. | \$6,600.00 | \$26,400.00 |
| | | | | | |
| 70 | L-858-6.22 | 67 | Extend sign foundations for single module. | \$900.00 | \$60,300.00 |
| | | | | | |
| 71 | L-858-6.23 | 3 | Extend sign foundations for double module. | \$1,400.00 | \$4,200.00 |
| | | | | | |
| 72 | L-858-6.24 | 1 | Extend sign foundations for triple module. | \$1,600.00 | \$1,600.00 |
| | <u> </u> | | SUBTOTAL | | \$900,600.00 |

| Elimina | ate the follo | wing Bi | d items where work is incorporated above | | |
|---------|---------------|---------|--|------------|---------------|
| 8 | L-105-5.7 | -6 | Temporary Guidance Sign - Reflective (Allowance) | \$422.00 | (\$2,532.00) |
| 9 | L-105-5.7 | -6 | Change Sign Panel - Size 3 (Allowance) | \$438.00 | (\$2,628.00) |
| 36 | L-858-6.1 | -200 | Replace multi-step electronics with single -step | \$214.00 | (\$42,800.00) |
| 37 | L-858-6.2 | -5 | New Guidance Sign Isolation Transformer | \$170.00 | (\$850.00) |
| 40 | L-858-6.5 | -3 | New Size 3 Six-panel Guidance Sign Complete | \$4,962.00 | (\$14,886.00) |
| 41 | L-858-6.6 | -1 | New Size 3 Two-panel Guidance Sign Panel | \$899.00 | (\$899.00) |
| 42 | L-858-6.7 | -1 | Relocate Size 3, Two-panel Guidance Sign Panel | \$1,094.00 | (\$1,094.00) |
| | 1 | | SUBTOTAL | | (\$65,689.00) |
| | | | GRAND TOTAL | | \$834,911.00 |

CHANGE ORDER REQUEST NO. 01 Line Item 1

Project Name: Airfield Lighting and Controls

Contractor : EAS Contracting, LP

Bid No : 2004-204

DESCRIPTION OF CHANGE: Remove and replace approximately 203 signs throughout the airfield. Nine are currently included in the contract to be replaced. Provide unit price to pay for the work to be completed for the various types of signs to be installed. These as shown on the list attached to the change order and range from single module signs with a single face to 6 & 7 module signs with two faces. Increase in contract value of \$834,911.00 and 60 calendar days.

PROBLEM: The current signs are old and in some cases do not comply with the FAA requirements such as having character closer than desired and panels that are custom made rather than standard sizes. Many panels on the signs are delaminating and out dated.

SOLUTION: Contractor currently onsite is experienced in this type of work and is required to make modifications to the existing signs electronic as well as install nine new signs. The new signs to be installed are also better than the current signs because their illumination source is from the bottom rather that the top and provides for more uniform illumination for the panel. In the past, the older signs had shadow lines in certain areas. Incorporating this work into its schedule should allow the completion to occur more timely. Lead time on the signs is up to twelve weeks and should provide for more efficient pricing since contractor is mobilized.

COST: \$ 834,911.00

CHANGE ORDER TYPE: User Request



White, Tracy

<u>T</u>o...

<u>C</u>c...

Bcc...

Subject:

FW: EPIA - ALC Signage Proposal

Attachments:

From: Eric.Lovejoy@kimley-horn.com [mailto:Eric.Lovejoy@kimley-horn.com]

Sent: Mon 1/24/2005 2:18 PM

To: White, Tracy

Subject: RE: EPIA - ALC Signage Proposal

Tracy,

A simple average cost calculation yields \$4,287.56/sign. This is quite within reason based on bids (not change orders) on several of our projects within the last couple of years.

I find it acceptable.

By way of history; during my conversation with Monica Lombrana when we first discussed adding the signs I had estimated the change to be \$1

mil. Thanks, eric

EAS CONTRACTING, L. P. 2535 Walnut Hill Lane Dallas, Texas 75229

Engineering Department City of El Paso 2 Civic Center Plaza El Paso, TX 79901

Re: EPIA Airfield Lighting and Controls, Bid No. 2004-204 Revised Signage Proposal 1-31-05

After additional review and on-site examination, EAS CONTRACTING, L.P. is pleased to offer the following Signage Proposal in a Unit Price Format inclusive of known modifications:

223 Lighted Signs provided by Siemens Airfield Solutions.

\$899,000.00 Proposed Cost For Added Signage

\$ (65,491.00) Credit From Existing Contract Items L-858-6.1, 6.2, 6.5, 6.6, and 6.7

\$833,509.00 Additional Cost to Contract

Estimate is based on Drawing Dated 5/20/2003 and photo field survey of existing. Completion will require an additional 60 calendar days added to Contract. Estimate includes discussed power to (4) Distance Remaining Signs.

Revised Project Schedule will Target Completion of Runway 4-22 as a Priority. Materials Provided by DBE Create 50% DBE.

Sincerely,

EAS CONTRACTING, L.P.

by I milledend

Bobby G. McClelland Project Manager El PASO Revised Signage Take-off 1-26-2005

| 208 Total Sign Locations | | + 15 | 223 Total S | igns |
|---|--------------------|----------------|--|---|
| 1 Module Single Face∠ 1 Module Double Face | 30 2 | | \$3200.00 \$3250.00 | \$ 96000.00 \$ 6500.00 |
| 2 Module Single Face (In Contract) 2 Module Single Face 2 Module Double Face | 4 23 8 | | \$3600.00 \$3700.00 | \$ 82800.00 \$ 29600.00 |
| 3 Module Single Face (In Contract) 5 3 Module Single Face 4 3 Module Double Face | 1 47 24 | | \$4000.00 \$4150.00 | \$188000.00 \$ 99600.00 |
| 7 4 Module Single Face 8 4 Module Double Face 9 5 Module Single Face 10 5 Module Double Face | 12 19 1 9 | (2+3) (2+3) | \$4400.00 \$4600.00 \$4800.00 \$5000.00 | \$ 52800.00 \$ 87400.00 \$ 4800.00 \$ 45000.00 |
| 6 Module Single Face 6 Module Double Face | 0 1 | (3+3) | 4962 \$5400.00 | \$ 5400.00 |
| 777 Module Single Face | 4 | (4+3) | \$5700.00 | \$ 22800.00 |
| /3 Distance Remaining Signs Double Face (Foundations not modified) | 19 | | \$4600.00 | \$ 87400.00 |
| Distance Remaining Signs Double Face (With Foundations and power source) | 4 | | \$6600.00 | \$ 26400.00 |
| Extend Sign Foundations (67) Single Extension) (67) Double Extension) | 70 of 20 | 08 | \$ 900.00 \$1400.00 | \$ 60300.00 \$ 4200.00 |
| TOTAL PROPOSAL | * | | | \$899000.00 |

208

Memo to File

Record of Events

The Contractor first submitted a proposal on December 15, 2004 based on a rough count of signs in the amount of \$840,658.65 and requested 90 calendar days extension. This proposal included credit for nine signs currently in the contract and a count of 226 signs.

Since that date, we have done a lot of further investigation and determined the sign count is approximately 203 not 227 plus the nine signs in the contract. In addition, we determined the number of sign bases to extend is approximately 70 not 65 originally estimated.

Based on these changes and the additional information collected, the contractor provided a revised price of \$833,509.00 and 60 calendar day extension. This amount includes credit for work not required as a result of this change and eliminates an existing unit price for six module sign which is believed to require a seven module sign. A recap of the amounts is as follows:

| Cost of new work | \$899,000.00 |
|-------------------------|---------------|
| Credit for deleted work | (\$65,491.00) |
| Costs of change | \$833,509.00 |

The line Items included in the credit are as follows:

| ltem | Qty | | U/P | Total | |
|------|-----|-----------|------------|-------------|-----------------------------|
| 36 | 200 | L-858-6.1 | \$214.00 | \$42,800.00 | Sign Electronics |
| 37 | 5 | L-858-6.2 | \$170.00 | \$850.00 | Sign Transformers |
| 40 | 4 | L-858-6.5 | \$4,962.00 | \$19,848.00 | Size 3, Six Module |
| 41 | 1 | L-858-6.6 | \$899.00 | \$899.00 | Sign Panel, Two Panel |
| 42 | 1 | L-858-6.7 | \$1,094.00 | \$1,094.00 | Relocate, Two Module Panels |
| | | | | \$65,491.00 | |

This assessment is OK except that I revised the quantity of Item 40 from 4 to 3 because the item may be required depending on the 4 large signs configuration, i.e. 6 or 7 module. This results in a reduction of the credit of \$4,962.00. Also, I added a Unit Price for Extend Foundation 3 Module in case it is needed at \$1,600.00.

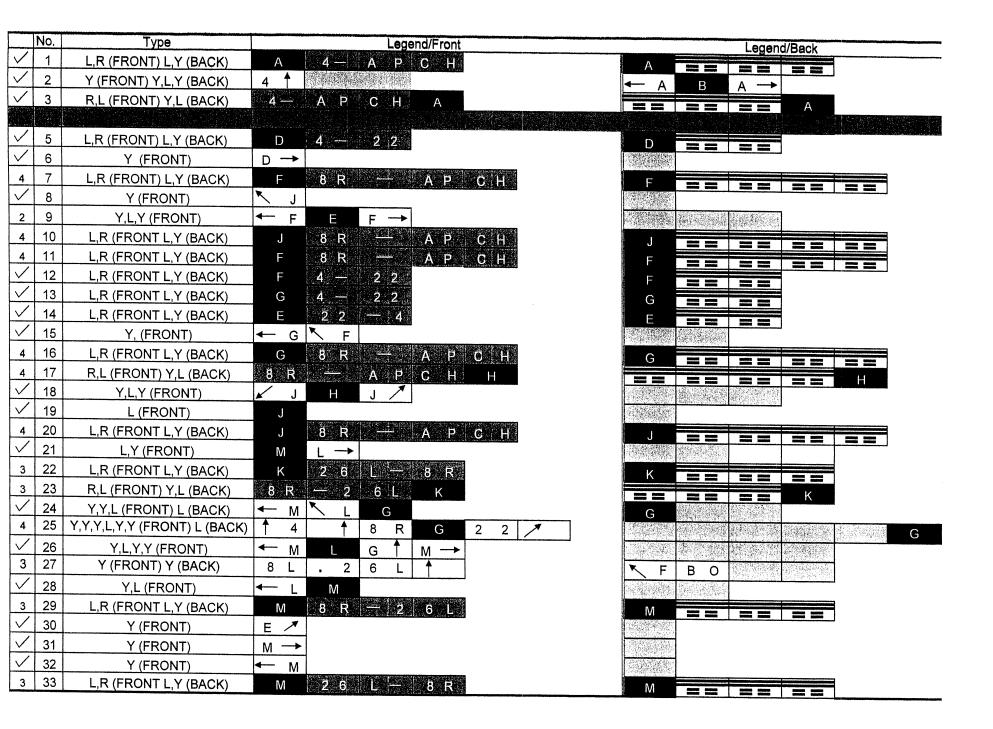
In addition, we have identified other related items that can also be eliminated as listed below:

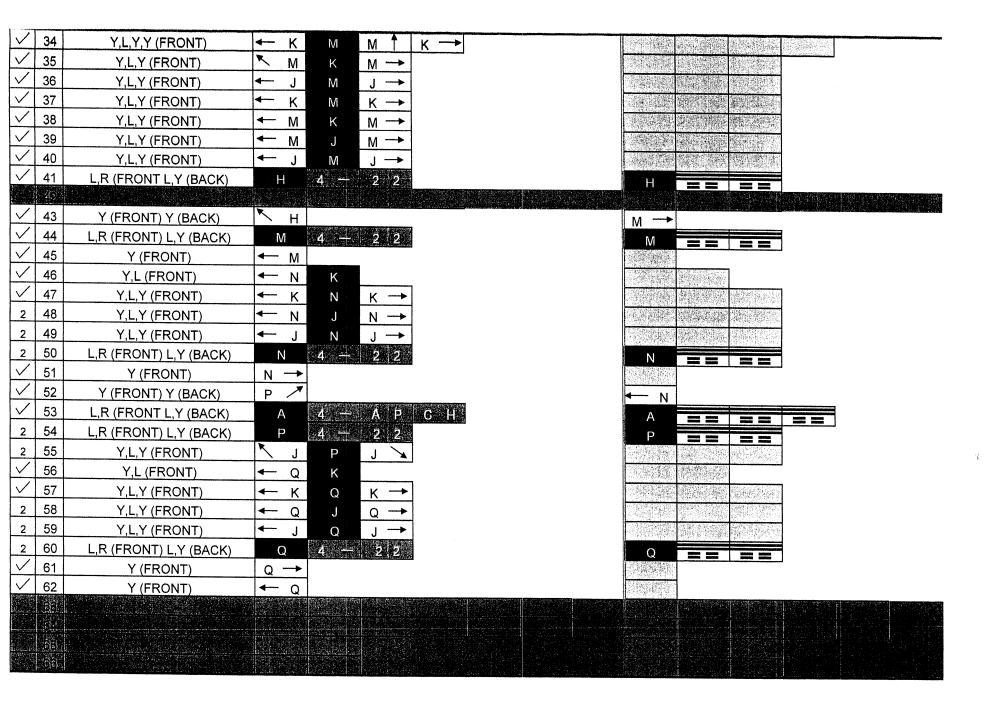
| Item | Qty | | U/P | Total | |
|------|-----|-----------|----------|------------|-------------------|
| | • | | | | Temp. Sign |
| 8 | 6 | L-105-5.7 | \$422.00 | \$2,532.00 | Reflective |
| 9 | 6 | L-105-5.8 | \$438.00 | \$2,628.00 | Change Sign Panel |
| | | | | \$5,160.00 | |

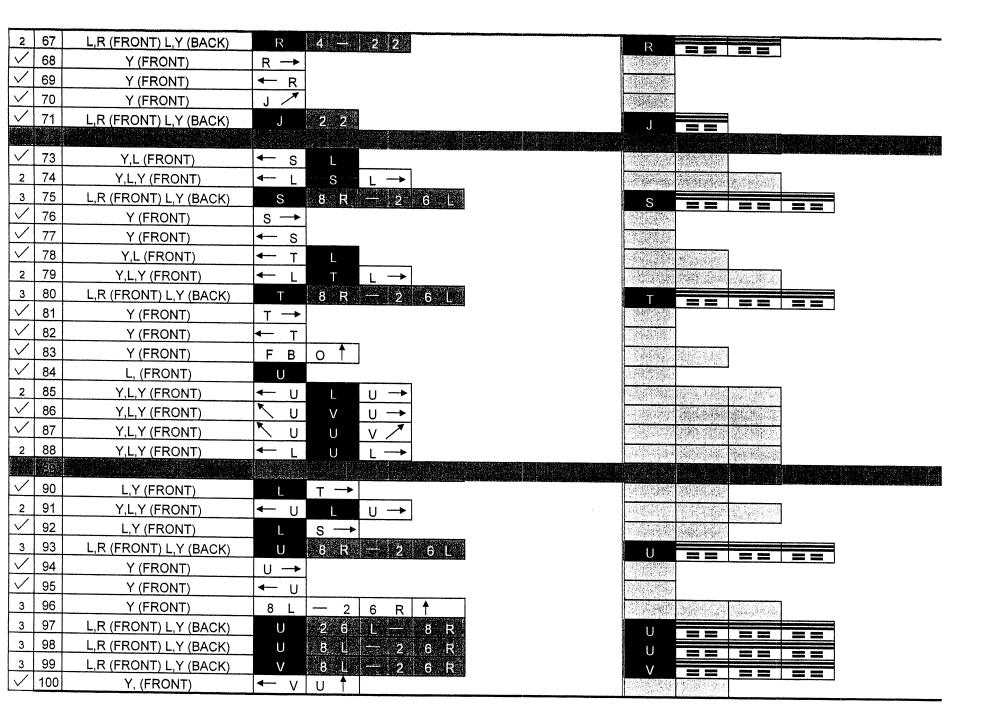
The result is an adjustment to the credit of \$198.00 (\$5,160 - \$4,962), or \$65,689 and resulting in the following:

| Cost of new work Credit for deleted | \$899,000.00 |
|-------------------------------------|---------------|
| work | (\$65,689.00) |
| New Pay Item | \$1,600.00 |
| Costs of change | \$834,911.00 |

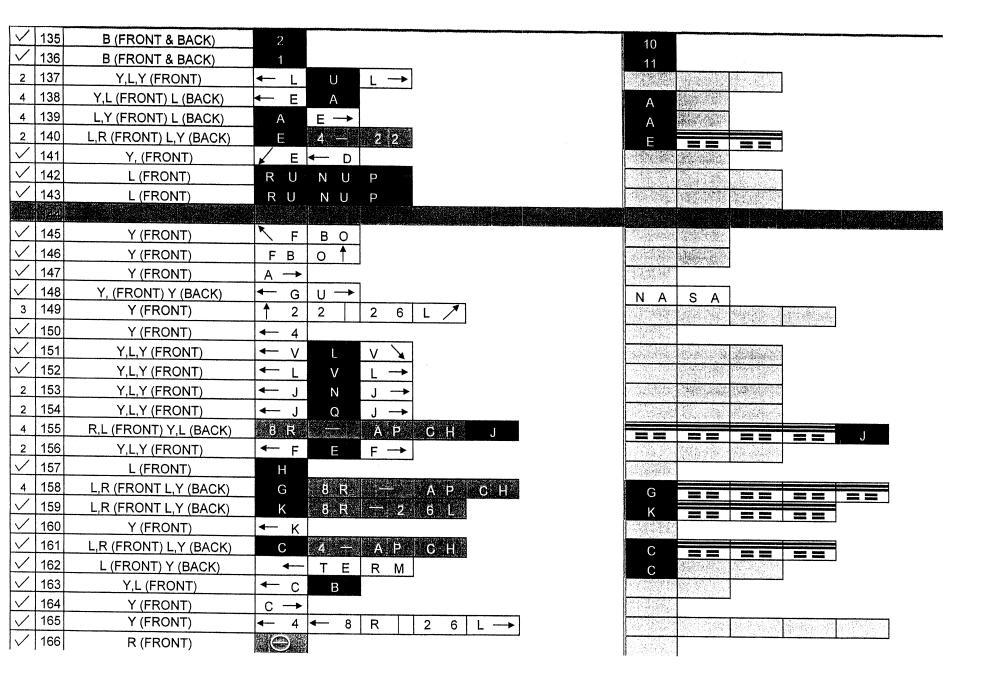
2/1/0)







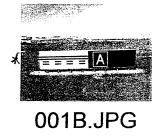
| ļ | | | | |
|--|-------------|------------------------|---------------------------------------|------------|
| 3 | 101 | L,R (FRONT) L,Y (BACK) | V 2 6 L - 8 R | |
| 3 | 102 | Y (FRONT) | 8 L — 2 6 R 1 | |
| 1 | 103 | Y (FRONT) | ∨ → | |
| <u>\</u> | 104 | Y (FRONT) | <u>← ∨</u> | |
| <u></u> | 105 | Y,L,Y (FRONT) | ▼ V L V → | 147 148 36 |
| 3 | 106 | L,R (FRONT) L,Y (BACK) | V 8 R — 2 6 L | |
| 2 | 107 | Y,L,Y (FRONT | ← Q J Q → | |
| <u>\\</u> | 108 | Y,L,Y (FRONT) | V V L / | |
| \ <u>\</u> | 109 | L,Y (FRONT | K Q → | |
| <u> </u> | 110 | Y (FRONT) | L 🗷 | |
| 2 | 111 | L,R (FRONT) L,Y (BACK) | L 2: 6 L | |
| <u></u> | 112 | R,L (FRONT) Y,L (BACK) | 2 2 J | |
| 2 | 113 | R,L (FRONT) Y,L (BACK) | 2 6 L L L | |
| 2 | 114 | Y,L,Y (FRONT) | ← N J N → | |
| <u>\</u> | 115 | L,Y (FRONT) | $K \longrightarrow N \longrightarrow$ | |
| <u>\\</u> | 116 | Y,L,Y (FRONT) | ← M J M → | |
| <u>\</u> | 117 | B (FRONT & BACK) | 8 | 1 |
| \ <u>\</u> | 118 | B (FRONT & BACK) | 7 | 2 |
| \ <u></u> | 119 | B (FRONT & BACK) | 6 | 3 |
| \ <u>\</u> | 120 | B (FRONT & BACK) | 5 . | 4 |
| \ <u>\</u> | 121 | B (FRONT & BACK) | 4 | 5 |
| \ <u>\</u> | 122 | B (FRONT & BACK) | 3 | 6 |
| \ <u>\</u> | 123 | B (FRONT & BACK) | 2 | 7 |
| \ <u>\</u> | 124 | B (FRONT & BACK) | 1 - | 8 |
| 1× | 125 | L,Y (FRONT) | G M | |
| \ <u>\</u> | 126 | Y,L,Y (FRONT) | V U U / | |
| <u> </u> | 127 | B (FRONT & BACK) | 10 | 2 |
| \\ | 128 | B (FRONT & BACK) | 9 | 3 |
| \ <u></u> | 129 | B (FRONT & BACK) | 8 | 4 |
| <u>\</u> | 130 | B (FRONT & BACK) | 7 | 5 |
| \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 131 | B (FRONT & BACK) | 6 | 6 |
| K, | 132 | B (FRONT & BACK) | 5 | 7 |
| \\\\ | 133 | B (FRONT & BACK) | 4 | 8 |
| $oxed{\checkmark}$ | 134 | B (FRONT & BACK) | 3 | 9 |



| 2 | 167 | Y (FRONT) | ← U | | | | | | | | |
|------------------|-----|------------------------|-------------|----------|-----------------|-------------|----------|---|--------------|--------------------|--|
| 4 | 168 | R,L (FRONT) Y,L (BACK) | | | Δb | € H G | | | | == G | |
| | 169 | Y (FRONT) | 2 6 | > | Maria Maria | | | E E | | | |
| | 170 | Y,L,Y (FRONT) Y (BACK) | ← K | K 1 | к → | 1 | 2 2 | — | | | |
| | 171 | Y,L,Y (FRONT) Y (BACK) | ← J | K 1 | J -> | | C A | | | | |
| | 172 | Y,L,Y (FRONT) Y (BACK) | ← κ | | K → | | 1 | | GO | | |
| | 173 | Y (FRONT) | CA | RG | 0 -> | | | | | | |
| | 174 | Y (FRONT) Y (BACK) | ← C | AR | G O | • | CA | RG | 0 - | | |
| 3 | 175 | L,Y (FRONT) | K | - | K 1 | | | | | | |
| V | 176 | Y,L,Y (FRONT) | ← R | K | R → | | | | 建筑 | | |
| \checkmark | 177 | Y,L,Y (FRONT) | ← R | J | $R \rightarrow$ | 1 | | 1.75 | 100 | | |
| \checkmark | 178 | Y (FRONT) | CA | RG | 0 - | 1 | 1.00 | | \$1,52 P. 19 | | |
| <u> </u> | 179 | Y (FRONT) Y,L,Y (BACK) | C A | R G | 0 | | ← | (R | К → | | |
| 4 | 180 | Y,L,Y (FRONT) | ← j | R | J → | | | r Park Torright | | | |
| <u> </u> | 181 | Y,L,Y (FRONT) | ← R | K | R → | | | 111111111111111111111111111111111111111 | | | |
| $ $ \leq | 182 | Y (FRONT) | C A | R G | 0 -> | | | | | | |
| $ \checkmark $ | 183 | Y,L,Y (FRONT) | <u></u> ← κ | R | κ → | | | | San San | | |
| | 184 | Y,L,Y (FRONT) | ← R | J | R → | | | | | | |
| 4 | 185 | Y,L,Y (FRONT) | ← J | R | J → | | | | e e willo | | |
| 3 | 186 | L,Y (FRONT) | J | ← | K 1 | - | | | | | |
| <u>\</u> | 187 | B (FRONT & BACK) | 11 | | 3 | | 1 | 401 | - | | |
| | 188 | Y (FRONT) | <u> </u> | K 1 | | | | | | | |
| < | 189 | Y (FRONT) | K 1 | | q. | _ | | | | ì | |
| \ <u>\</u> | 190 | R,L (FRONT) L,Y (BACK) | | 22 | | | K 1 | | | | |
| 3 | 191 | Y,L,Y,Y (FRONT) | ← J | J | K 2 | - | | | | | |
| 3 | 192 | L,Y (FRONT) ,Y (BACK) | _ J | - | K 1 | | 2 2 | ! T | | | |
| ` | 193 | R,L (FRONT) Y,L (BACK) | 4 | 2 2 | ** | | | | K1 | | |
| \ <u>\</u> | 194 | Y,L,Y (FRONT) Y (BACK) | ← J | K 2 | J | | C A | RG | <u> </u> | Name of the second | |
| 3 | 195 | | K | 4 | K 1 | - | | | 1 | | |
| 3 | 196 | ···· | K | 4 | K 2 | - | | i nema | | | |
| | 197 | | ← κ | K 2 | | 7 | | | |] | |
| | 198 | | CA | R G | 0 | | | | |] | |
| | 199 | L,Y (FRONT) | K 2 | K → | 1 | | | | | | |

| | | | | - | T X | | | | | The subsection of the production | Province to a contract to | | | |
|----------|-----|--------------------|--------------|----------|----------|-----|-----|-----|----|----------------------------------|---------------------------|--------------|--------|---------------|
| 3 | 200 | L,Y (FRONT) | J | K 2 | <u> </u> | J> | | | | 20.42 | | | uk. | |
| \leq | 201 | Y (FRONT) | ← M | | | | | | | | | | | |
| <u> </u> | 202 | Y (FRONT) | M> | | | | | | | 31,57 | | | | |
| | 203 | B (FRONT) | 1 | | | | | | | 4 | | | | |
| | 204 | B (FRONT) | 2 | | | | | | | 3 | | | | |
| | 205 | B (FRONT) | 3 | | | | | | | 2 | | | | |
| | 206 | B (FRONT) | 4 | | | | | | | 1 | | | | |
| | 207 | Y (FRONT) Y (BACK) | F B | 0 | | | | | | F B | 0 | | | |
| | 208 | Y (FRONT) Y (BACK) | F B | 0 | | | | | | F B | 0 | | | |
| | 209 | Y (FRONT) Y (BACK) | FB | 0 | | | | | | F B | 0 | | | |
| | 210 | Y (FRONT) | ← ∨ | | | | | | | | | | | |
| | 211 | Y (FRONT) | ← ∨ | | | _ | | | | | 1 | | | |
| <u> </u> | 212 | Y (FRONT) | ← U | / | V → | | | | | | | | | |
| | 213 | Y (FRONT) | ← U | | | | | | | 45 A | 1.0 | | | |
| 4 | 214 | Y (FRONT) | ← -4 | -8 R | | L | 2 6 | L - | -] | | 1111 X 14 31 Y | | | |
| 4 | 215 | Y (FRONT) | ← 4 - | 8 R | | L — | 2 6 | L - | • | | | | | 45.7 |
| 4 | 216 | Y (FRONT) | ← 4 - | 8 R | | L — | 2 6 | L → | • | | 14474 | | | C K St. F. F. |
| 4 | 217 | Y (FRONT) | ← 4 − | 8 R | | L - | 2 6 | L → | | | | 9.97 7.97 | E PARK | |















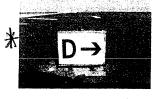


003A.JPG

003B.JPG

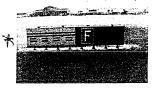
005A.JPG

005B.JPG







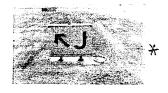


006A.JPG

006B.JPG

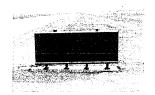
007A.JPG

007B.JPG









008A.JPG

008B.JPG

009A.JPG

009B.JPG









010A.JPG

010B.JPG

011A.JPG

011B.JPG

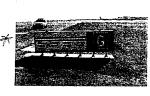




012B.JPG



013A.JPG



013B.JPG



014A.JPG



014B.JPG



015A.JPG



015B.JPG



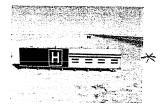
016A.JPG



016B.JPG



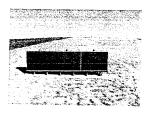
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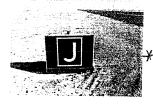
017B.JPG



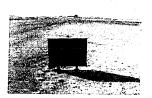
018A.JPG



018B.JPG



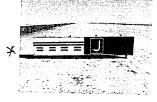
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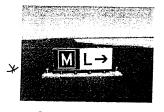
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020A.JPG



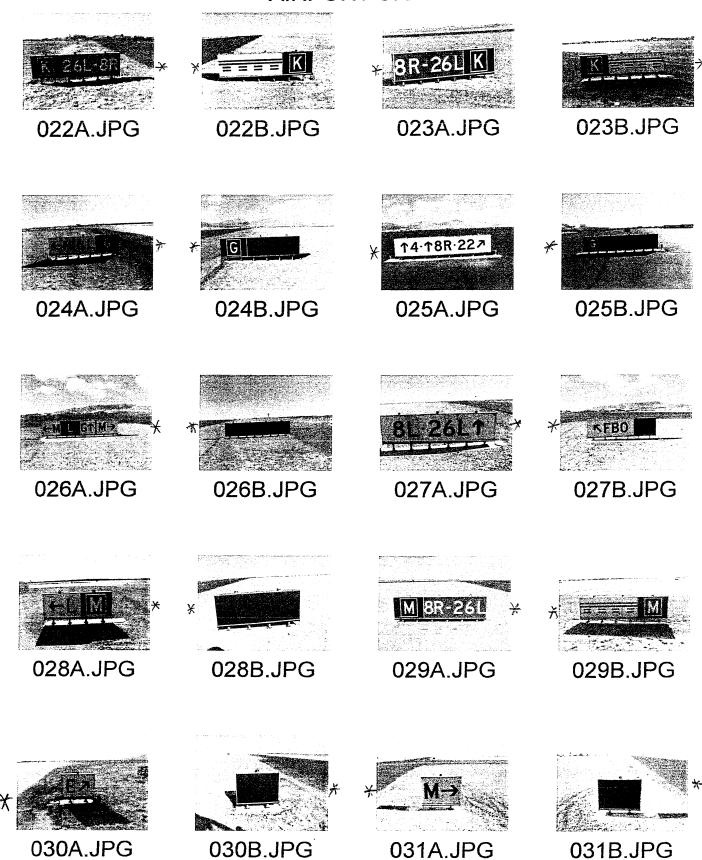
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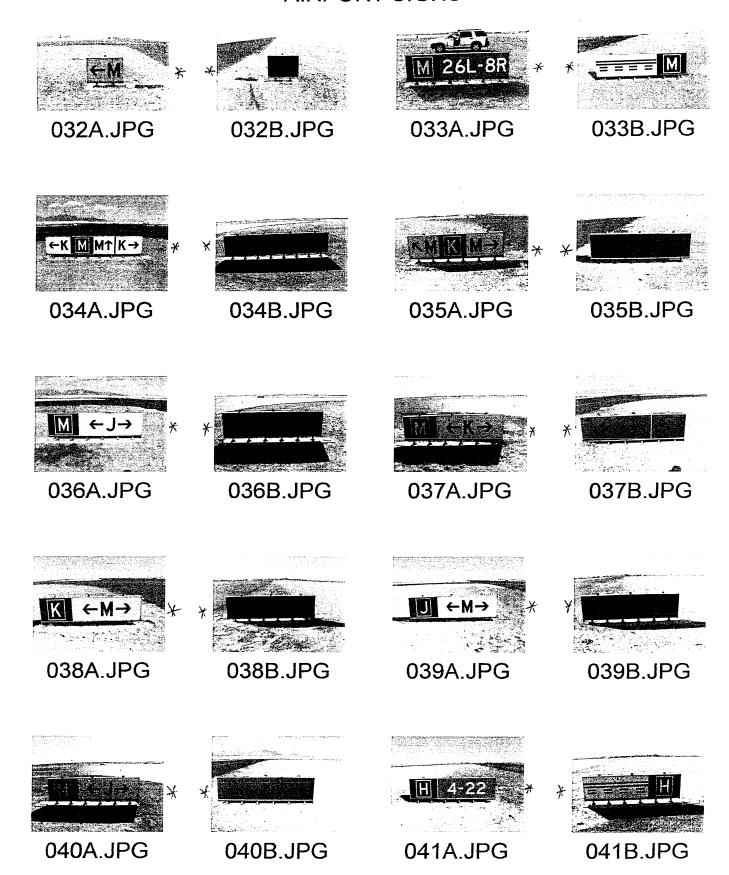


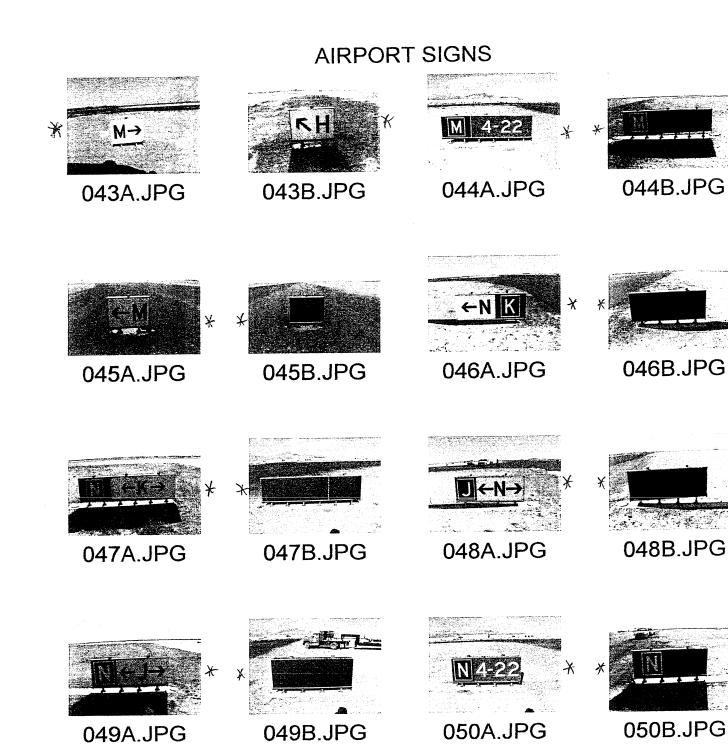
021A.JPG



021B.JPG









051A.JPG



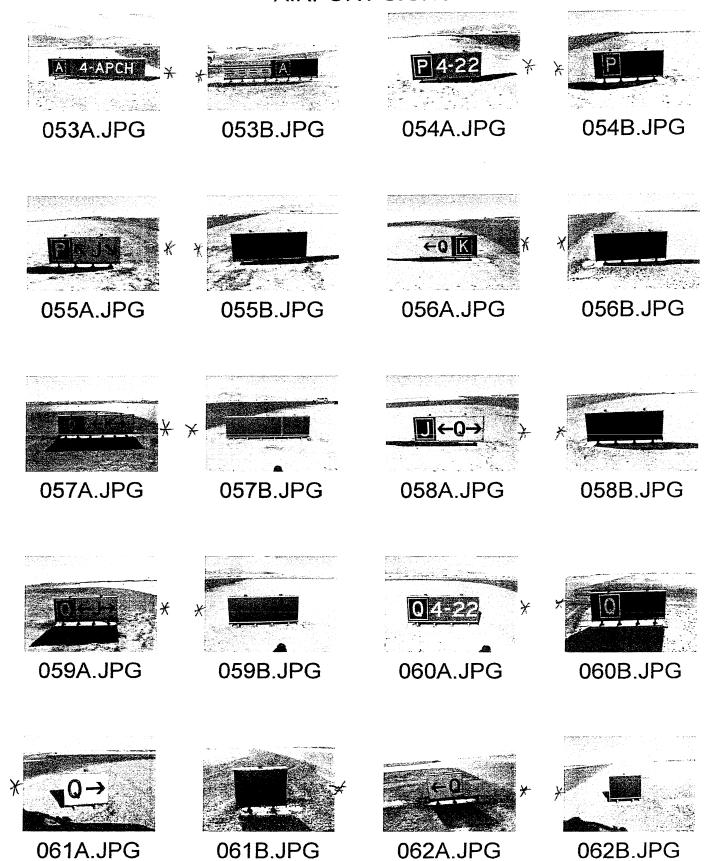
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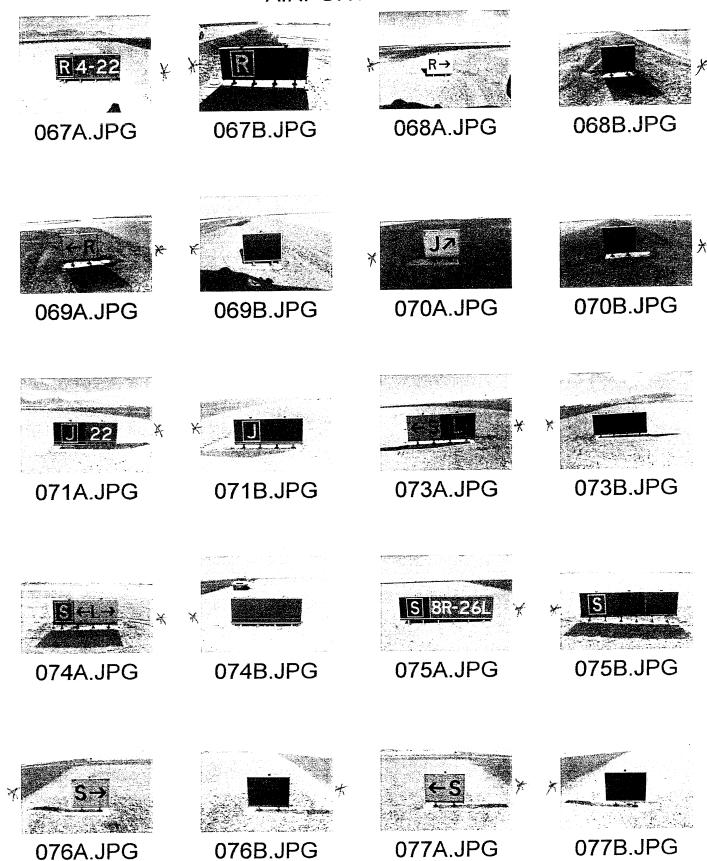


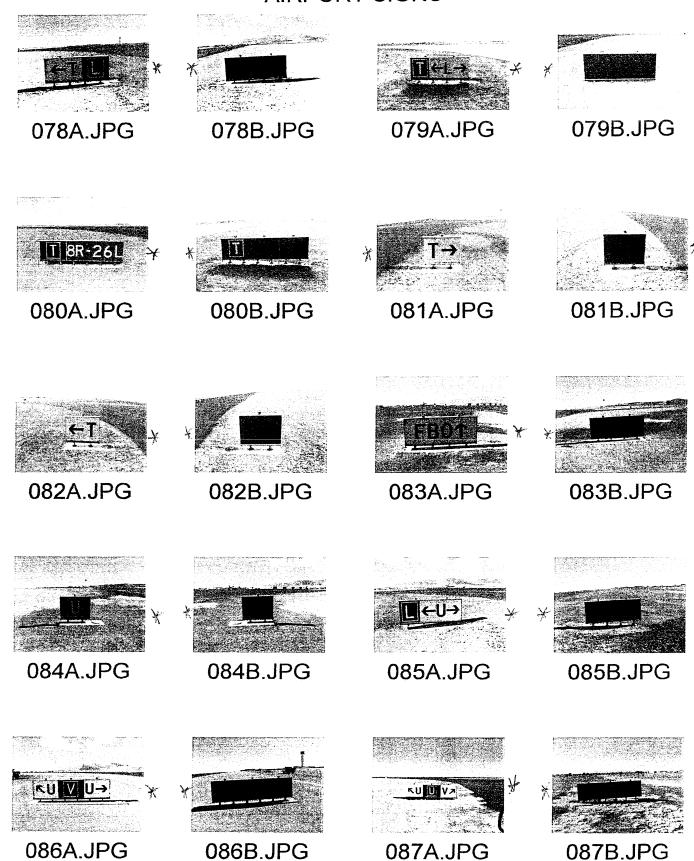
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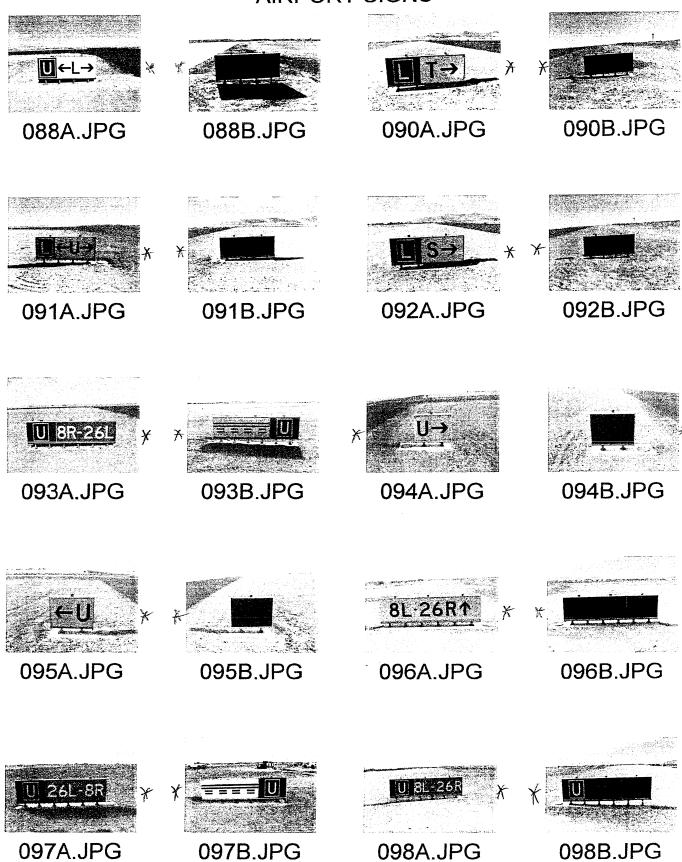


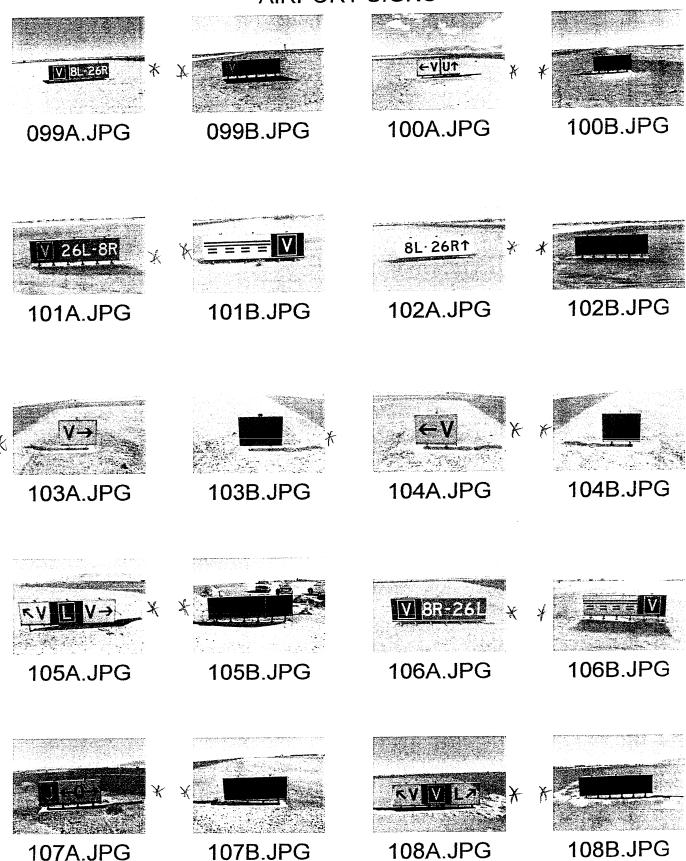
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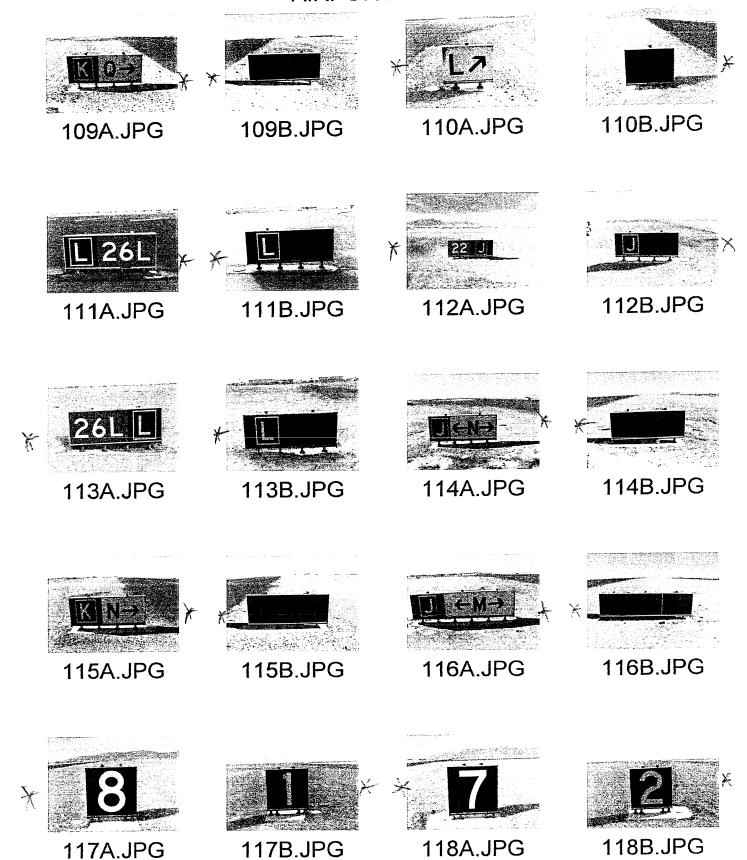


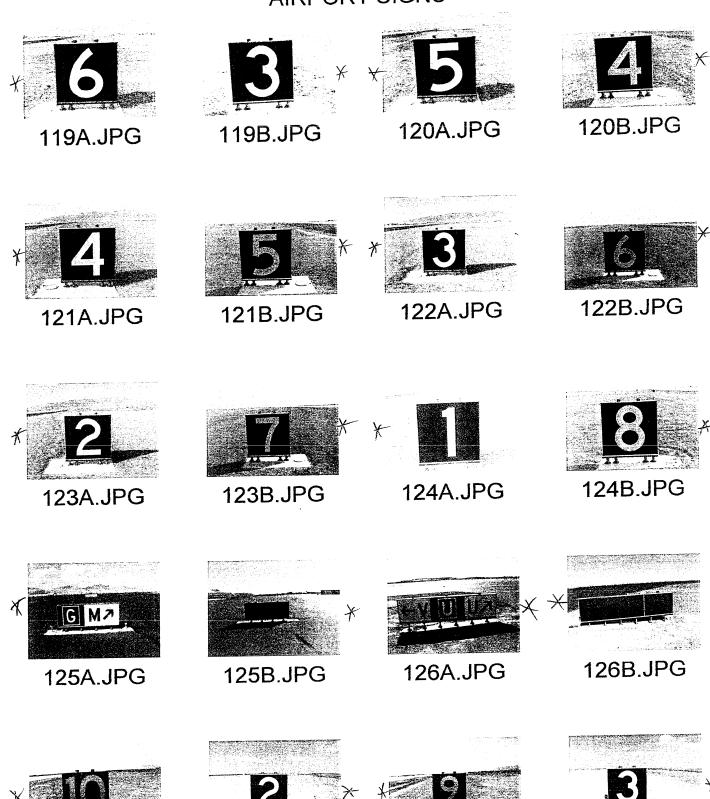














127A.JPG



127B.JPG



128A.JPG



128B.JPG



129A.JPG



129B.JPG



130A.JPG



130B.JPG



131A.JPG



131B.JPG



132A.JPG



132B.JPG



133A.JPG



133B.JPG



134A.JPG



134B.JPG



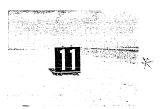
135A.JPG



135B.JPG



136A.JPG



136B.JPG



137A.JPG



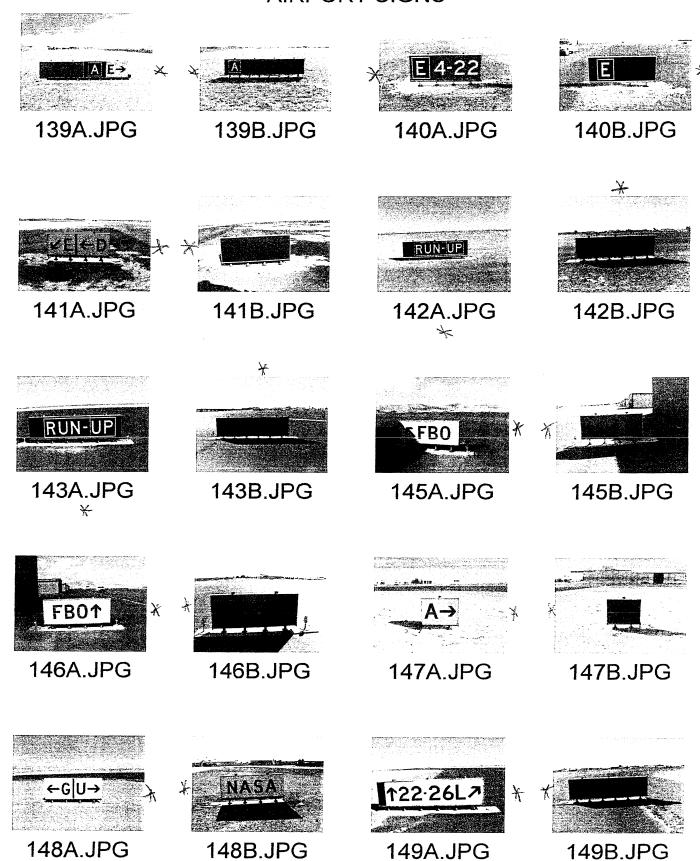
137B.JPG



138A.JPG



138B.JPG





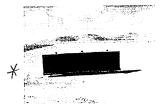
150A.JPG



150B.JPG



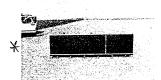
151A.JPG



151B.JPG



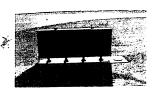
152A.JPG



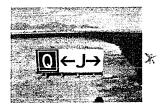
152B.JPG



153A.JPG



153B.JPG



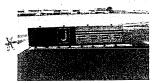
154A.JPG



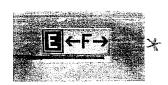
154B.JPG



155A.JPG



155B.JPG



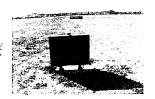
156A.JPG



156B.JPG



157A.JPG



157B.JPG



158A.JPG



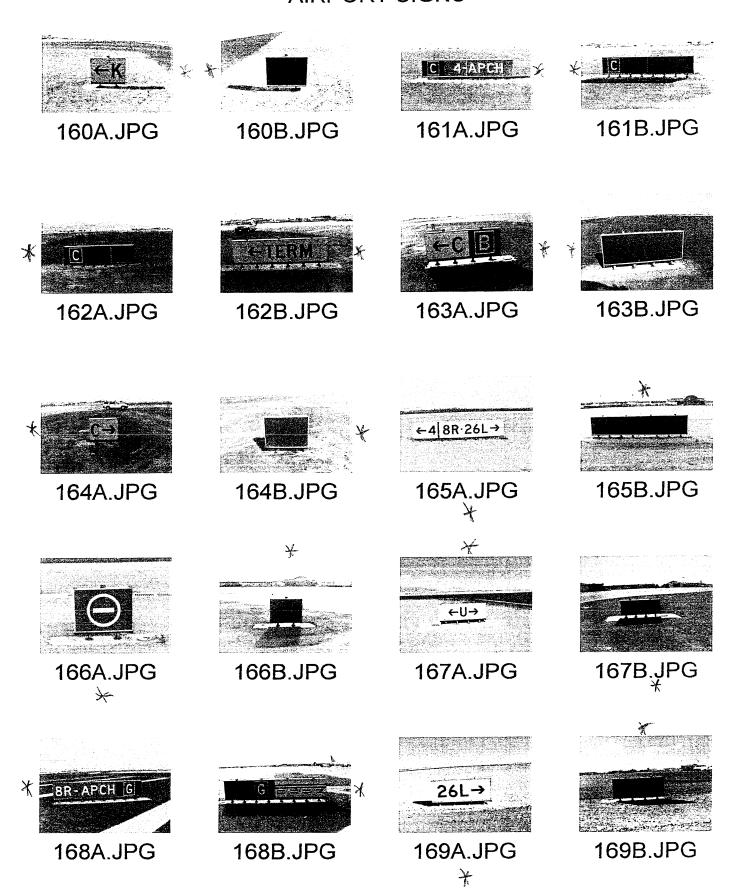
158B.JPG



159A.JPG



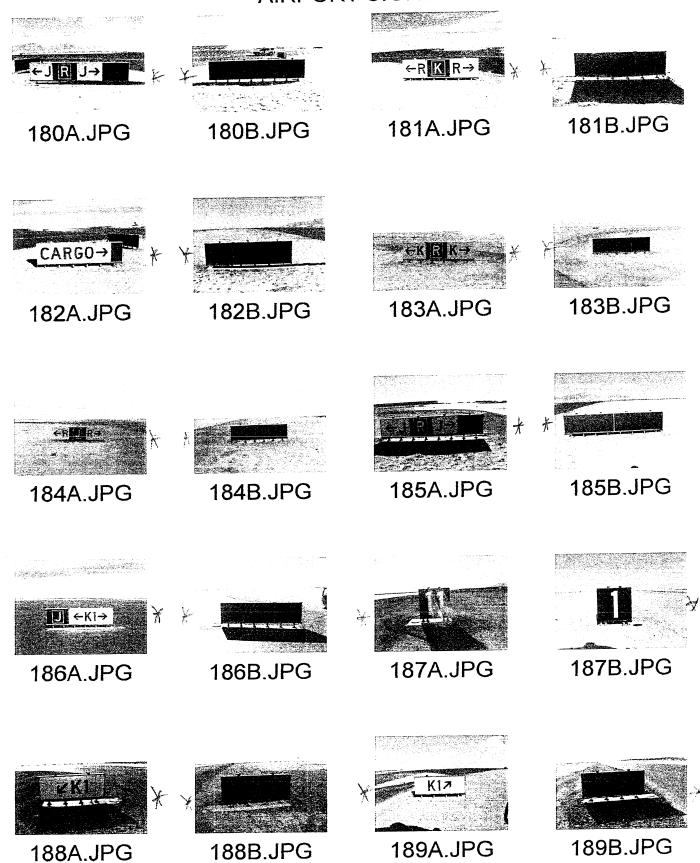
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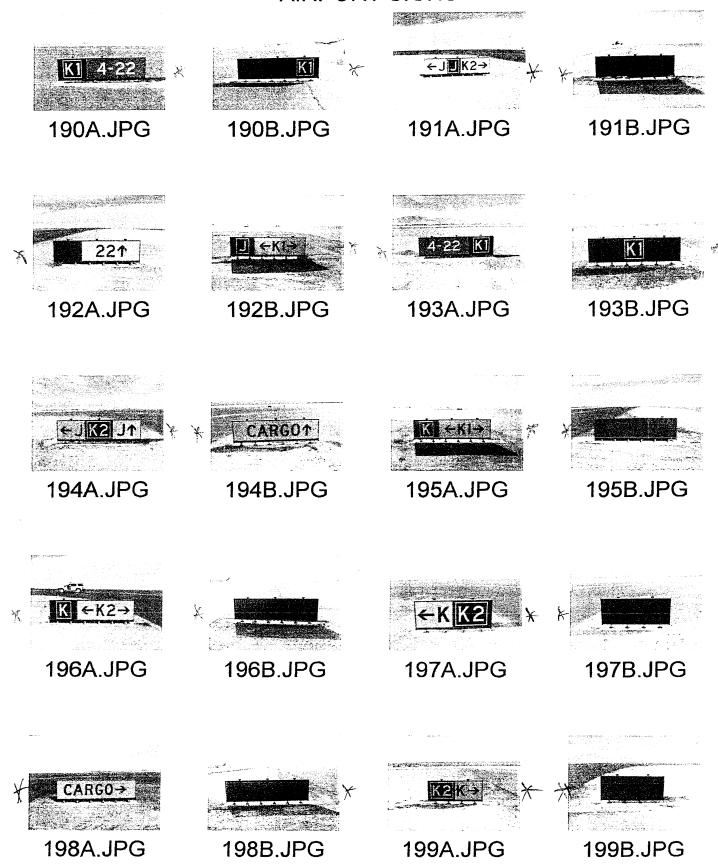


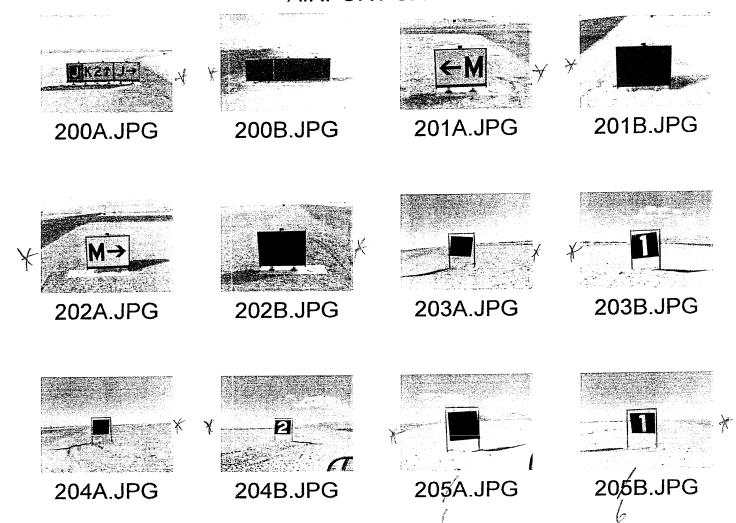


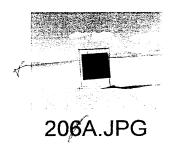
178B.JPG

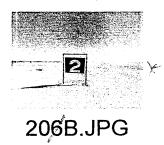
178A.JPG











AIRFIELD LIGHTING AND CONTROLS BID NO. 2004-204

CHANGE ORDER NO. 01 UNIT PRICES Item 2 UNIT PRICE LIST

IN CONTRACT

| LINE | SPEC. NO. | DESCRIPTION | QUANTITY | Unit | UNIT PRICE | TOTAL PRICE |
|------|------------|--|----------|------|------------|--------------|
| | L-105-5.1 | New L-824, Type C 1/C #8, 5KV Cable (Temporary) | 5,000 | LF | \$1.50 | \$7,500.00 |
| 4 | L-105-5.2 | Used L-824, Type C 1/C, 5KV #8 Cable (Temporary) | 5,000 | LF | \$0.50 | \$2,500.00 |
| 5 | L-105-5.3 | Single-Way 2" Conduit, Temporary (Allowance) | 2,000 | LF | \$1.60 | |
| 6 | L-105-5.4 | Temporary Guidance Sign | 6 | EA | \$1,735.00 | |
| 7 | L-105-5.5 | Relocate Temporary Guidance Sign | 6 | EA | \$798.00 | |
| 8 | L-105-5.6 | Temporary Guidance Sign - Reflective | 6 | EΑ | \$422.00 | \$2,532.00 |
| 10 | L-105-5.8 | Temporary Taxiway Edge Lights | 100 | EΑ | \$222.00 | |
| 11 | L-105-5.9 | Temporary Fixture/Reflector Removal | 100 | EΑ | \$22.00 | \$2,200.00 |
| 22 | L-110-5.9 | Multi-Way Duct (14) 2" Conduit Directional Bore | 800 | LF | \$83.00 | \$66,400.00 |
| 23 | L-110-5.10 | Multi-Way Duct (7) 2" Conduit Directional Bore | 4,000 | LF | \$62.25 | \$249,000.00 |
| 24 | L-110-5.11 | Multi-Way Duct (4) 2" Conduit Directional Bore | 200 | LF | \$60.00 | |
| 25 | L-110-5.12 | Multi-Way Duct (4) 4" Conduit Directional Bore | 800 | LF | \$82.00 | \$65,600.00 |
| L | | | | | | \$448,330.00 |

DELETE THE FOLLOWING PAY ITEMS

| LINE | SPEC. NO. | DESCRIPTION | QUANTITY | | UNIT PRICE | TOTAL PRICE |
|------|-----------|--------------------------------------|----------|----|------------|---------------|
| 6 | L-105-5.4 | Temporary Guidance Sign | -6 | EΑ | \$1,735.00 | (\$10,410.00) |
| 7 | L-105-5.5 | Relocate Temporary Guidance Sign | -6 | EA | \$798.00 | (\$4.788.00) |
| 8 | L-105-5.6 | Temporary Guidance Sign - Reflective | -6 | EΑ | \$422.00 | (\$2.532.00) |
| 10 | L-105-5.8 | Temporary Taxiway Edge Lights | -100 | LF | \$222.00 | 1 ' |
| 11 | L-105-5.9 | Temporary Fixture/Reflector Removal | -100 | LF | \$22.00 | (\$2.200.00) |
| L | | | | | | (\$42,130,00) |

REVISE THE FOLLOWING PAY ITEMS AS NOTED

| LINE | SPEC. NO. | DESCRIPTION | | QUANTITY | | UNIT PRICE | TOTAL PRICE |
|------|------------|---|--------|----------|----|------------|---------------|
| 4 | L-105-5.2 | Used L-824 #8 Temporary Cable | Add | 55,000 | LF | \$0.50 | \$27,500.00 |
| 22 | L-110-5.9 | Multi-Way Duct (14) 2" Conduit Directional Bore | Delete | -380 | LF | \$83.00 | (|
| 23 | L-110-5.10 | Multi-Way Duct (7) 2" Conduit Directional Bore | Delete | -1,389 | LF | \$62.25 | (\$86,465.25) |
| 24 | L-110-5.11 | Multi-Way Duct (4) 2" Conduit Directional Bore | Delete | -65 | LF | \$60.00 | (\$3,900.00) |
| 25 | L-110-5.12 | Multi-Way Duct (4) 4" Conduit Directional Bore | Add | 20 | LF | \$82.00 | \$1,640.00 |
| | | | | | | | (\$92.765.25) |

ADD THE FOLLOWING NEW PAY ITEMS

| LINE | SPEC. NO. | DESCRIPTION | QUANTITY | LF | UNIT PRICE | TOTAL PRICE |
|--|------------|--|----------|----|-------------|--------------|
| 5a | L-105-5.3a | Used Single-Way 2" Conduit, Temporary (Allowance) | 40,000 | LF | \$0.85 | \$34,000.00 |
| 22a | L-110-5.9a | Multi-Way Duct (14) 2" Conduit Direct Buried | 320 | LF | \$40.50 | \$12,960.00 |
| 23a | L-110-5.10 | Multi-Way Duct (7) 2" Conduit Direct Buried | 1,450 | LF | \$24.75 | \$35,887.50 |
| 23b | | Multi-Way Duct (7) 2" Conduit Direct Buried (credit) | 1 | LS | -\$2,879.80 | (\$2,879.80) |
| L.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | \$79,967.70 |

 Deleted
 (\$42,130.00)

 Revised
 (\$92.765.25)

 New
 \$79,967.70

 Change Order Total
 (\$54,927.55)

Contractor : EAS Contracting, LP

Bid No : 2004-204

CHANGE ORDER REQUEST NO. 01 Line Item 2

DESCRIPTION OF CHANGE: Provide new unit price and eliminate unit prices to pay for the work needed to maintain temporary power and establish a method of payment for conduit duct from Bore ends to Handholes on Multi-Way Duct (14) 2" and Multi-Way Duct (7) 2". This will be provided by adding three (3) new pay items to compensate for the work to be completed. These are shown on the list attached to the change order. Decrease in contract value of \$56,467.50 and no change in contract time.

PROBLEM: The contractor is required to replace the wiring for all the airfield lighting. This work is accomplished piecemeal to maintain airport traffic. Piecemealing the installation of wire requires the use of circuit bypasses to maintain continuity while the work is ongoing. The contract includes various line items for paying for the temporary bypasses, which include estimated quantities by the engineer as follows:

| LINE | DESCRIPTION | Qty. | Unit | UNIT PRICE | TOTAL PRICE |
|------|--|-------|------|---------------|----------------|
| 3 | New L-824, Type C 1/C #8, 5KV Cable (Temporary) | 5,000 | LF | \$1.50 | \$7,500.00 |
| 4 | Used L-824, Type C 1/C, 5KV #8 Cable (Temporary) | 5,000 | LF | \$0.50 | \$2,500.00 |
| 5 | Single-Way 2" Conduit, Temporary (Allowance) | 2,000 | LF | \$1.60 | \$3,200.00 |
| 6 | Temporary Guidance Sign | 6 | EA | \$1,735.00 | \$10,410.00 |
| 7 | Relocate Temporary Guidance Sign | 6 | EA | \$798.00 | \$4,788.00 |
| 8 | Temporary Guidance Sign – Reflective | 6 | EA | \$422.00 | \$2,532.00 |
| 10 | Temporary Taxiway Edge Lights | 100 | EA | \$222.00 | \$22,200.00 |
| 11 | Temporary Fixture/Reflector Removal | 100 | EA | \$22.00 | \$2,200.00 |
| | | | | Total | \$55,330.00 |

These quantities were based on general assumptions that the contractor could work large areas and make short, easy bypasses. The work as progressing, is done in small areas requiring more bypasses than anticipated, in addition, the 2" conduit can be re-used but no unit price is provided. It is anticipated that based on the current trend for bypasses the quantities required will change as follows:

| LINE | DESCRIPTION | Qty | | | UNIT PRICE | TOTAL PRICE |
|------|---|-----------|-----|----|---------------|----------------|
| 4 | Used L-824 #8 Temporary Cable | 55,000 | Add | LF | \$0.50 | \$27,500.00 |
| 5a | Used Single-Way 2" Conduit, Temporary (Allowance) | 40,000.00 | New | LF | \$.85 | \$34,000.00 |
| | , | | | | | \$61,500.00 |



Project Name: Airfield Lighting and Controls CHANGE ORDER REQUEST NO. 01

Contractor: EAS Contracting, LP

Bid No : 2004-204

In reviewing the means and methods the contractor is using for temporary measures, it was also determined that the following line items will not be used and should be eliminated.

| LINE | DESCRIPTION | Qty | | | UNIT PRICE | TOTAL PRICE |
|----------------|--------------------------------------|------|--------|----|---------------|----------------|
| 6 | Temporary Guidance Sign | -6 | Delete | EΑ | \$1,735.00 | (\$10,410.00) |
| _ | Relocate Temporary Guidance Sign | -6 | Delete | EA | \$798.00 | (\$4,788.00) |
| . 8 | Temporary Guidance Sign - Reflective | -6 | Delete | EA | \$422.00 | (\$2,532.00) |
| 10 | Temporary Taxiway Edge Lights | -100 | Delete | LF | \$222.00 | (\$22,200.00) |
| 11 | Temporary Fixture/Reflector Removal | -100 | Delete | LF | \$22.00 | (\$2,200.00) |
| | , composition of | | | | | (\$42,130.00) |

The changes above result in a contract increase of \$19,370.00 (\$61,500.00 -\$42,130.00).

The second change pertains to a discrepancy between the quantities on the bid items and the requirements in the specifications. The engineer calculated the length of the bores underneath the taxiways and the runways based on making the bore pit at the location of the handholes which are located approximately 50 to 75 feet from the edge of pavement. This resulted in the following pay items:

| LINE | DESCRIPTION | Qty | | UNIT PRICE | TOTAL PRICE |
|--|---|-------|----|---------------|----------------|
| 22 | Multi-Way Duct (14) 2" Conduit Directional Bore | 800 | LF | \$83.00 | \$66,400.00 |
| 23 | Multi-Way Duct (7) 2" Conduit Directional Bore | 4,000 | LF | \$62.25 | \$249,000.00 |
| 24 | Multi-Way Duct (4) 2" Conduit Directional Bore | 200 | LF | \$60.00 | \$12,000.00 |
| 25 | Multi-Way Duct (4) 4" Conduit Directional Bore | 800 | LF | \$82.00 | \$65,600.00 |
| Annual state of the Control of the C | | | | | \$393,000.00 |

The specification says the bore will be paid to 5 feet outside the shoulder or pavement area resulting in the quantities above being over stated. In addition the distance between the bore termination, 5 feet outside pavement and the handhole have more duct bank configuration not included in the bid documents, i.e. (14) 2" Conduit Duct Bank and a (7) 2" Conduit Duct Bank.

This change order will revise the quantities of directional bore to a new realistic number and add unit prices to pay for the duct banks described below. The last Unit Price, 23b, provides for material credit for the materials not installed for the bore at Taxiway K2. All other work associated with this bore were paid at the unit price.

| LINE | DESCRIPTION | Qty | | | UNIT PRICE | TOTAL PRICE |
|------|---|-------|-------|----|---------------|----------------|
| 22 | Multi-Way Duct (14) 2" Conduit Directional Bore | 420 | Final | LF | \$83.00 | \$34,860.00 |
| 23 | Multi-Way Duct (7) 2" Conduit Directional Bore | 2,611 | Final | LF | \$62.25 | \$162,534.75 |
| 24 | Multi-Way Duct (4) 2" Conduit Directional Bore | 135 | Final | LF | \$60.00 | \$8,100.00 |
| 25 | Multi-Way Duct (4) 4" Conduit Directional Bore | 820 | Final | LF | \$82.00 | \$67,240.00 |
| 22a | Multi-Way Duct (14) 2" Conduit | 320 | Add | LF | \$40.50 | \$12,960.00 |
| 23a | Multi-Way Duct (7) 2" Conduit | 1,450 | Add | LF | \$24.75 | \$35,887.50 |
| 23b | Material Credit for Casing and Conduit | 1 | Add | LS | -\$2,879.80 | (\$2,879.80) |
| | | | | | | \$318,702.45 |



Project Name: Airfield Lighting and Controls CHANGE ORDER REQUEST NO. 01

Contractor: EAS Contracting, LP

Bid No : 2004-204

The change above results in a contract decrease of \$74,297.55 (\$393,000.00 - \$318,702.45).

The two changes listed results in a credit of \$54,927.55 (\$19,370.00 - \$74,297.55).

SOLUTION: Three (3) pay items have been added to compensate the contractor for the work needed to maintain temporary power and connections from Conduit Duct from Bore ends to Handholes. Five Pay Items were eliminated and five others were adjusted to more realistic quantities.

SAVINGS OF: \$ 54,927.55

CHANGE ORDER TYPE: Unforeseen Conditions



REQUEST FOR INFORMATION/CLARIFICATION

| To: | Dinter Engineering Company 385 Gentry Way, #200 | Date: 01/14/05 | RFI 10 | 148 / 13 |
|----------------------|---|------------------------------------|------------------|------------------|
| | Reno, Nevada 89502 | | | |
| | | | | |
| | | | | |
| Reques | t to Designer (Please print question legibly; use bac | k if more space is needed) | | |
| | | | | |
| | te field conditions, we are lacking Pay Items for extending | | s to | · |
| | les on Multi-way Duct, (14) 2" and Multi-way Duct, (7 | | | |
| | poses the addition of Item No. L-110-5.9A (Multi-wa | | | |
| | At \$40.50 LF. (Item L-110-5.4 less (4) conduit) and | | | |
| | ay Duct (7) 2" Conduit, Direct Buried) for 1450 LF. A | | | |
| | conduit). Item No. L-110-5.2 (Multi-way (4) 4" Condu | | | our and a second |
| | F. At \$23.50 LF. For re-route and bore connections | | | |
| | ay (4) 2" Conduit, Direct Buried) will need to be incre | | | |
| | I modification of K2 Bore. (All quantity additions are | | | |
| | 410.00 of additions can be off-set by deducting 1196 2" Conduit, Directional Bore verified not to be neede | | 5.10 (Multi-way | |
| <u> </u> | Z Conduit, Directional Bore verified not to be neede | <u>a.) (\$74,451.00).</u> | | |
| | | | | |
| | est relates to | Date Info Required | | |
| Drawing/ Spection | Detail No.: | to prevent delays: | ASAP | _ |
| | | | | |
| Attachments | s to this request: None | | | - |
| Bobby Mc | Clalland | F. O. O. | | |
| (Contractor's N | | EAS Contracting, LP (Company Name) | | |
| | | | | |
| Designer's | Response | Date of Response | 1/20/2005 | |
| The propos | sed solution is acceptable. | | | |
| | оби обликот по изобразов. | | | |
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REQUEST FOR INFORMATION/CLARIFICATION

| 1.45 A. C. |
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